

## Product datasheet for **MC224674**

### **Nfat5 (NM\_018823) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nfat5 (NM\_018823) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nfat5  
**Synonyms:** AI225870; B130038B15Rik; CAG-8; CAG80; mKIAA0827; NFATL1; nfat5; OREBP; TonEBP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224674 representing NM\_018823  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCCCAAGTCCCTGTACTCGC  
GAGATTCTCTGAAGTTACACCCATCACAGACTTTTCATAGAGCTGGACTATTGGAAGAATCTGTCTATGA  
TCTTCTCCAAAGGAGTTACAGTTACCTCCACCTAGAGAAACATCTGTAGCATCAATGAGTCAGACAAGC  
GGTGGTGAAGCAGGCTCGCTCCTCCAGCTGTAGTTGCTGCTGATGCTTCTTCAGCTCCCTCCTCTCTCT  
CCATGGGCGGTGCTTGCAGCTCCTTTACCACCTCTCCAGCCCTACCATTATTCTACCTCAGTCACCGA  
CAGCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGTAAGTAACAGAGGGTAAAGTAAAAAG  
CAGTTAACCGGTAACACAGTTCAGCAGCATCCATCAACCCCGAAGAGGCACACAGTTTTGTACATCTCAC  
CACCACCTGAGGACTTGTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGTGGATTGGAATCTGA  
GCAGAGCTGCAGTATGTGGATGGAGGATCCCCCTCCAACCTCAGTAACATGAGCACCAGTTCCTACAAT  
GATAACACTGAGGTACCTCGTAAATCACGAAAACGAAATCCAAAGCAGAGGCGGGGGTCAAACGACGAG  
ATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTCACTATGTGCTTTCTCA  
GCTTACCACGGACAACAAAGGCAACTCAAAGCTGGAAATGGAACATTGGACAGCCAAAAGGGAAGTGA  
GTAAGAAGAGCCCTATGTTGTGCGGACAGTATCCGGTTAAAAGTGAGGGGAAGGAGCTGAAGATAGTGG  
TACAGCCTGAAACCCAACACCGAGCCCGGTACCTGACAGAGGGCAGCCGAGGCTCTGTAAGACAGAAC  
ACAGCAAGGCTTTCTACGGTGAAGCTGGAAGGCCATAATGAACAGTGGTGTTCAGGATTTTGTGGGC  
AATGATTCTGGTCGAGTAAAACCATGGATTCTATCAGGCTGTAGAGTAACTGGGCGAAATACAACCTC  
CCTGCAAGAAGTGGACATTGAAGGTACCACTGTTATAGAAGTTGGTCTTGATCCTAGCAACAACATGAC  
ACTGGCGGTGGACTGTGTTGGAATATTGAAGCTGAGGAATGCCGATGTTGAAGCCAGAATTGGAATTGCT  
GGATCTAAGAAAAGAGCACTCGTGCCAGATTGGTTTTTCGAGTTAATATCACAAGGAAAGATGGCTCTA  
CTCTGACATTGCAGACACCTTCTCCCCCATTTTATGCACTCAGCCAGCAGGAGTTCCTGAGATCTTAAA  
GAAAAGCTTGCATAGCTGTTTCAGTGAAAGGAGAGGAAGAAGTATTTTTAATTGGGAAAAACTTTCTGAAA  
GGAATAAAGTTATTTCCAGGAAAATGTTTCTGATGAAAACCTTGGAATCAGAAGCTGAAATTGACA



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TGGAGTTATTCATCAGAACCATCTTATTGTGAAGGTTCTCCGTATCATGACCAACATATAACTTTGCC  
 TGTATCAGTGGGAATATATGTTGTGACCAATGCTGGAAGATCTCATGATGTTCCAGCCATTTACGTACACT  
 CCGGATCCAGCAGCTGGTGCTTTGAATGTAAATGTGAAAAAGGAGATATCTAGTCCAGCAAGACCTTGCT  
 CTTTTGAAGAAGCCATGAAAGCAATGAAACGACTGGATGTAACGTAGATAAGGTGACTATCCTTCTAA  
 TGCCCTGATCACTCCACTCATATCAAGCAGTATGATTAAGACTGAAGATGTTACTCCAATGGAAGTAACT  
 TCAGAAAAAAGATCTTCCCAATTTTTTCAGACTACAAAGAGCATTGGATCAACCCAGCAAACTTAGAAA  
 CTATTTTAAACATAGCGGGGGTGCACCCCTTCTCCTCACCGTCGCATCTTCCCCTTAACTCCTGAAAG  
 TGAGAATCAGCAGCAGCTTCAGCCCAAGGCATACAACCCAGAGACCCTGACAACATCCAGACACAGGAC  
 ATCTCACAGCCCAGGACCTTTCCCGCAGTTTCTGCTGCTAGTCAGCTGCCAGCAGCGATGCACTACTGC  
 AGCAGGCAACACAGTTTCAGACAAGAGAAGCTCAGTCCAGAGACACAATACAGTCAGATACAGTGGTTAA  
 CTTGTCACAGTTAACTGAAGCATCACAGCAGCAGCAATCCCCTACAAGAACAAGCACAACCGTTACAG  
 CAGCAGATACCATCAAATATTTTTCCATCGCCAAGCAGTGTGAGCCAGCTCCAGAGTACTATTGAGCAGC  
 TGCAAGCAGGAAGTTTCACAGGCAGCGTGTGGCGGCAGGAGTGAAGCGTTGATTTGGTCCAGCAGGT  
 TTTAGAGGCACAACAGCAGTTATCGTCTGTTCTGTTTTCTACTCCAGATGGGAATGAGAATGTTCAAGAA  
 CAGCTTAATGCAGACATTTTCCAAGTCAGTCAAATTCAAAATAGTGAAGCCCTGGAATGTTTTCTTCAG  
 CGGAGTCTGCAGTTCACACTAGACCAGATAACTTACTACCTGGGAGGGCTGACAGCGTCCATCAACAGAC  
 TGAANAATACACTGTCTAATCAGCAGCAGCAGCAACAGCAGCAGCAGCAAGTATGGAGTCACTCAGCTGCA  
 ATGGTGATGGAGATGCAGCAGAGCATTTGCCAAGCAGCTGCCAGATCCAGTCAGAGCTGTTTCTTTCAG  
 CTGCTTACAGAACTGGAAGCCTTCAGCAGTCTCCAGTTTACCAGCAGCCTTCTCATATGATGAGTGCAGT  
 GCCTACCAACGAGGACATGCAGATGCAGTGTGAGTGTCTCGTCTCCCCTGCAGCTTCTGAAACGAA  
 ACTTCCACAACCCACGCCACAGGTGGCAACCCCTGGCTCCACCATGTTTCAGACCAAGTTCAGGAG  
 ATGGAGAAGAACTGGAGCACAAGCAAAACAGATTGAGAACAGCGTCTTTCAGACAATGGTCCAAATGCA  
 GCGCAGTGGTGACAGCCAACTCAAGTAAACCTTTTTTTCATCTACAAAAAATAAATGAGTGTTCAGAAT  
 AATGGTACCCAGCAACAAGGGAATAGCTTGTTCAGCAAGGAGCGAGATGATGTCACTTCACTGCTGGGA  
 ACTTTTTGCAGCAGTCTCTCATTACAGGCTCAGCTCTTTCATCCTCAAATCCTATTGCTGATGCTCA  
 GAACCTTTCCAGGAACTCAAGGTTCAATTTTTCATAGTCCAAATCCTATTGTCCACAGTCAAACCTTCC  
 ACAGCATCCTCTGAACAACCTGCAGCCTTCAATGTTTCACTCTCAGAATACCATTGCTGTGTACAGGGCT  
 CTTTCAGTTCCTCAAGACCAGCAGTCAACCAACATATTTCTTCCCAAAGTCTATCAATAATCTTCAAAC  
 TAACACAGTAGCCCAAGAAGAGCAGATTTCAATTTTTGCAGCACAGAACTCAATTTCTCCACTTCAGTCA  
 ACATCAAACACTGAGCAGCAAGTGTCTTCCAACAGCAGCCTCCAATCTCACACATCCAGACCCCTATTC  
 TTTCCAGGAACAGGCACAACCCCTCTCAGCAAGGTTATTTGAGCCTCAGGTGGCCCTTGGCTCCCTGCC  
 TCCATCAATCCAATGCCCTAAAACAGCAAGTCCAATTTTCCAAACACAGCGCCCAATAGTTGGCATGCGAG  
 AGTAACTCTCATCCCAGGAGCAGCAGCAGCAACAGCAGCAACAGCAGCAGCAGCAACAGCAACAAC  
 AACAGCAACAGAGCATTTTATTAGTAATCAGAATGCCATGGCTACAATGGCTCCCAGAAGCAGCCACC  
 ACCAAACATGATGTTTAGCCCAACAGAACCAATGGCTAGTCAGGAGCAGCAGAACAGTCAATTTTT  
 CACCAGCAAAGTAAATAGGCCCAATGAACCAAGAGCAGCAGCCATGCAATTTGAGAATCAGCCTACGG  
 TTTCTCACTTTCAGAACCCAGGCTCTACGAGTCTGAGTCAACACAGACCTCCTGTTCCATAGCTCTCC  
 TCAGATGCAGTTGGTTCAAGGGTCACTAGTCTCAAGATCAGCAAGTAACTCTTCTCTCCAGCA  
 TCCATGCTGCAATTGCAAAACAGTATAAACCAACCAGACATGCAGCAGTCTCCTTTTATCCCCGCGAGA  
 ACAACATCCCTGGAATCCAAGGAAGCACTTCTTACCCAGCCACAGGCTACTTTATTTCAACAACACTAC  
 AGGAGGCACAATAAACCAAAATACAAAATTTCTCCTGGCTCATCTCAGCAGACTTCAGGAATGTTCTTATT  
 GGCATTAAAAAATTTAGTACAGTTTTTAACCTCCGGACCAGCTACATTGCCAGATCAGCTGATGGCCA  
 TAAATCAGCAGGGCCAACCAAAAATGAGGGCCAATCTTCTGTGACAACACTTCTTTCTCAGCAAATGCC  
 AGAGACTTCCCCACTGGCTCCTCTGTGAACAGCAGTCAAGACATGAAAAAGATTGATTTGCTTGTTTCA  
 TTGCAAGCCAAGGGAACAATTTAACCGGCTCCTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM\_018823

<b>Insert Size:</b>	4659 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_018823.2</a></u> , <u><a href="#">NP_061293.2</a></u>
<b>RefSeq Size:</b>	13389 bp
<b>RefSeq ORF:</b>	4659 bp
<b>Locus ID:</b>	54446
<b>UniProt ID:</b>	<u><a href="#">Q9WV30</a></u>
<b>Cytogenetics:</b>	8 53.93 cM
<b>Gene Summary:</b>	<p>Transcription factor involved in the transcriptional regulation of osmoprotective and inflammatory genes. Regulates hypertonicity-induced cellular accumulation of osmolytes. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (b) encodes the longest isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.</p>